

AD-A263 517

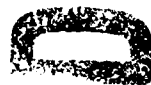


**RDT&E  
Programs (R-1) S**

**DTIC**

**ELECTE**

**APR 28 1993**



**C**



**DISTRIBUTION STATEMENT A**

**Approved for public release**

**Distribution Unlimited**

**Department of Defense Budget  
For Fiscal Year 1994**

**93-08937**



## Preface

The R.D.T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Future Years Defense Program R.D.T.&E Annex data base.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. An unclassified version of the document is provided to OASD(PA) for use by non-DoD activities.

Office of the Comptroller of the Department of Defense

St-A, Auth: OSD/PA (Mr. Heilsnis -  
697-5737) telecon, 4-27-93, JK

Accession For	
NTIS	CRA&I <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By <del>XXXXXXXXXX</del>	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
PA-1	

## TABLE OF CONTENTS

	<u>PAGE</u>
 <u>DoD Component Summary</u>	
 <u>Army</u>	
Army Summary	
Army R-1 Detail	
 <u>Navy</u>	
Navy Summary	
Navy R-1 Detail	
 <u>Air Force</u>	
Air Force Summary	
Air Force R-1 Detail	
 <u>Defense Agencies</u>	
Defense Agency Summary	
Defense Agency R-1 Detail	
Director, Test and Evaluation Summary	
Director, Test and Evaluation R-1 Detail	
Director, Operational Test and Evaluation Summary	
Director, Operational Test and Evaluation R-1 Detail	
Individual Defense Agency R-1 Detail	
	II & III
	A-I A-1 through A-10
	N-I N-1 through N-11
	F-I F-1 through F-12
	D-I & D-II D-1 through D-8 D-9 D-10 D-11 D-12 D-13 through D-30

## UNCLASSIFIED

Department of Defense  
FY 1994 R D T & E Program

Exhibit R-1

## Summary

	FY 1992	FY 1993	FY 1994
	Thousands of Dollars		
Summary By Appropriation			
Research Development Test & Eval Army	6,436,946	6,015,110	5,249,948
Research Development Test & Eval Navy	8,642,894	8,933,536	9,215,604
Research Development Test & Eval AF	13,139,124	13,155,598	13,694,984
Research Development Test & Eval Defwide	9,674,405	9,800,638	10,174,549
Director of Test & Eval Defense	210,225	259,021	272,592
Director of Operational Test & Evaluation	12,836	12,333	12,650
Total Research, Development, Test & Evaluation	38,116,430	38,176,236	38,620,327
Summary Recap of Research Categories			
Research	1,145,776	1,323,732	1,255,869
Exploratory Development	2,958,521	3,610,733	3,109,448
Advanced Development	10,323,765	10,843,078	9,387,458
Engineering Development	9,822,550	8,885,632	8,890,238
Management and Support	3,043,929	2,786,300	2,984,669
Research and Development (FYDP Program 6)	27,294,541	27,449,475	25,627,682
Operational Systems Development	10,821,889	10,726,761	12,992,645
Total Research, Development, Test & Evaluation	38,116,430	38,176,236	38,620,327

UNCLASSIFIED

## UNCLASSIFIED

Department of Defense  
FY 1994 R D T & E Program

Exhibit R-1

## Summary

	FY 1992	FY 1993	FY 1994
	Thousands of Dollars		
Summary Recap of Budget Activities			
Technology Base	4,104,297	4,920,252	4,376,279
Advanced Technology Development	6,313,808	4,052,570	3,607,283
Strategic Programs	4,239,734	6,345,017	4,776,019
Tactical Programs	14,313,250	14,130,651	15,904,245
Intelligence and Communications	4,920,683	4,702,293	5,113,163
Defensewide Mission Support	4,224,658	4,025,453	4,843,338
Total Research, Development, Test & Evaluation	38,116,430	38,176,236	38,620,327
Summary Recap of FYDP Programs			
Strategic Forces	599,657	361,434	359,707
General Purpose Forces	2,808,179	2,651,858	3,948,007
Intelligence and Communications	6,885,245	7,194,394	7,668,894
Airlift/Sealift	10,975	12,082	32,172
Research and Development (FYDP Program 6)	27,294,541	27,449,475	25,627,682
Central Supply and Maintenance	209,666	262,608	51,752
Training Medical and Other			1,926
Administration and Assoc Activities	5,309	5,135	595,169
Support of Other Nations	3,023	3,522	3,820
Special Operations Forces	299,835	235,728	331,198
Total Research, Development, Test & Evaluation	38,116,430	38,176,236	38,620,327

Page 111

UNCLASSIFIED

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

## Summary

Thousands of Dollars

	FY 1992	FY 1993	FY 1994
Summary Recap of Research Categories			
Research			
Exploratory Development	198,295	217,388	218,361
Advanced Development	683,016	816,988	613,852
Engineering Development	1,323,725	1,501,657	967,277
Management and Support	2,376,215	1,853,825	1,808,356
	1,370,623	1,245,668	1,041,118
Research and Development (FYDP Program 6)	5,951,874	5,635,526	4,648,964
Operational Systems Development	485,072	379,584	600,984
Total Research Development Test & Eval Army	6,436,946	6,015,110	5,249,948
Summary Recap of Budget Activities			
Technology Base	881,311	1,018,414	832,213
Advanced Technology Development	432,975	843,686	434,667
Strategic Programs	57,208	30,498	8,647
Tactical Programs	3,479,975	2,639,046	2,590,659
Intelligence and Communications	140,354	147,828	184,561
Defensewide Mission Support	1,445,123	1,335,638	1,199,201
Total Research Development Test & Eval Army	6,436,946	6,015,110	5,249,948
Summary Recap of FYDP Programs			
Strategic Forces	7,923	1,911	
General Purpose Forces	310,687	208,267	330,614
Intelligence and Communications	138,535	136,814	178,358
Research and Development (FYDP Program 6)	5,951,874	5,635,526	4,648,964
Central Supply and Maintenance	27,927	32,592	
Administration and Assoc Activities			92,012
Total Research Development Test & Eval Army	6,436,946	6,015,110	5,249,948

UNCLASSIFIED

Page A-1

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 2040 A Research Development Test &amp; Eval Army

Line No	Program Element No	Item	Act	FY 1992	FY 1993	FY 1994 e
			Thousands of Dollars			
1	0601101A	In-House Laboratory Independent Research	1	8,808	11,729	10,954 U
2	0601102A	Defense Research Sciences	1	186,565	201,973	203,695 U
3	0601104A	Electromechanics and Hypervelocity Physics	1	2,922	3,686	3,712 U
4	0602104A	TRACTOR ROSE	1	2,758	3,382	5,720 U
5	0602105A	Materials Technology	1	14,440	17,436	11,288 U
6	0602120A	Electronic Survivability and Fuzing Technology	1	21,339	27,773	28,793 U
7	0602122A	TRACTOR HIP	1	10,822	23,227	11,921 U
8	0602123A	TRACTOR FIELD	1	1,221	3,873	U
9	0602211A	Aviation Technology	1	50,518	44,781	34,150 U
10	0602270A	EW Technology	1	22,274	21,579	20,962 U
11	0602303A	Missile Technology	1	33,534	40,153	23,777 U
12	0602307A	Laser Weapons Technology	1	476	554	510 U
13	0602308A	Modeling and Simulation	1	7,900	4,727	J
14	0602601A	Combat Vehicle and Automotive Technology	1	40,102	58,055	38,994 U
15	0602609A	Not Used	1			U
16	0602618A	Ballistics Technology	1	61,890	56,904	29,547 U
17	0602622A	Chemical, Smoke and Equipment Defeating Technology	1	46,865	46,099	37,766 U
18	0602623A	Joint Service Small Arms Program	1	4,453	4,643	3,397 U
19	0602624A	Weapons and Munitions Technology	1	40,063	36,157	34,794 U
20	0602705A	Electronics and Electronic Devices	1	20,769	20,790	19,400 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit B-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e c
			Thousands of Dollars			
21	0602709A	Night Vision Technology	1	29,917	33,310	18,941 U
22	0602716A	Human Factors Engineering Technology	1	5,491	10,252	15,163 U
23	0602720A	Environmental Quality Technology	1	29,487	62,875	21,229 U
24	0602727A	Non-System Training Device Technology	1	3,889	8,021	4,413 U
25	0602782A	Command, Control, Communications Technology	1	18,218	17,081	10,376 U
26	0602783A	Computer and Software Technology	1	5,282	2,938	5,743 U
27	0602784A	Military Engineering Technology	1	44,478	40,551	41,183 U
28	0602785A	Manpower/Personnel/Training Technology	1	15,789	15,325	13,319 U
29	0602786A	Logistics Technology	1	36,994	36,819	28,453 U
30	0602787A	Medical Technology	1	109,621	91,194	86,711 U
31	0602788A	TRACTOR FLOP	1	1,588	1,581	1,562 U
32	0602789A	ARMY Artificial Intelligence Technology	1	2,838	3,119	2,696 U
33	0602790A	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		67,827	63,044 U
Technology Base				881,311	1,018,414	832,213
34	0602813A	TRACTOR DUMP	2		15,962	U
35	0603001A	Logistics Advanced Technology	2	10,711	18,052	12,913 U
36	0603002A	Medical Advanced Technology	2	57,271	238,526	40,346 U
37	0603003A	Aviation Advanced Technology	2	34,048	38,323	53,073 U
38	0603004A	Weapons and Munitions Advanced Technology	2	59,854	59,068	17,291 U

Page A-2

UNCLASSIFIED



UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars	S
39	0603005A Combat Vehicle and Automotive Advanced Technology	2	26,283	42,400	39,093	U	
40	0603006A Command, Control, Communications Advanced Technology	2	9,661	9,799	16.0	U	
41	0603007A Manpower, Personnel and Training Advanced Technology	2	15,801	15,978	8,064	U	
42	0603009A TRACTOR HIKE	2	5,078	6,354	7,355	U	
43	0603012A TRACTOR HOLE	2	11,493	20,457	11,779	U	
44	0603013A TRACTOR DIRT	2	99	3,236	1,888	U	
45	0603017A TRACTOR RED	2	11,574	1,975	7,629	U	
46	0603020A TRACTOR ROSE	2			6,679	U	
47	0603102A Materials and Structures Advanced Technology	2	2,715	6,314		U	
48	0603105A Acquired Immune Deficiency Syndrome (AIDS) Research	2	27,339	53,790	3,410	U	
49	0603238A Global Surveillance/Air Defense/Precision Strike Technology Demonstration	2		34,510	29,484	U	
50	0603270A EW Technology	2	6,093	40,817	28,533	U	
51	0603313A Missile and Rocket Advanced Technology	2	19,946	20,011	46,497	U	
52	0603322A TRACTOR CAGE	2	24,654	23,122	13,909	U	
53	0603393A TRACTOR TRAILER	2	11,059			U	
54	0603606A Landmine Warfare and Barrier Advanced Technology	2	17,197	18,091	9,995	U	
55	0603607A Joint Service Small Arms Program	2	5,336	5,458	5,529	U	
56	0603654A Line-Of-Sight, Antitank (LOSAT)	2	27,900	113,150		U	
57	0603710A Night Vision Advanced Technology	2	23,024	26,887	38,661	U	
58	0603734A Military Engineering Advanced Technology	2	3,013	3,218	2,910	U	

UNCLASSIFIED

Page A-3

## UNCLASSIFIED

Department of the Army  
FY 1994 R D I & E Program  
Exhibit R--

Appropriation: 2040 A Research Development Test & Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 e c
					Thousands of Dollars
59	0603742A Advanced Electronic Devices Development	2	7,337	6,283	U
60	0603759A Chemical Biological Defense and Smoke Advanced Technology	2	4,118	3,306	2,634 U
61	0603772A Advanced Tactical Computer Science and Technology	2	11,371	18,599	30,946 U
Advanced Technology Development					
62	0603392A Anti-Satellite Weapon (ASAT)	3	34,022	18,437	U
63	0102814A Special Programs	3			U
64	0303152A World-Wide Military Command and Control Systems, Information System	3			U
Strategic Programs					
65	0603018A TRACTOR TREAD	4	57,208	30,498	8,647 U
66	0603019A TRACTOR DUMP	4		4,037	19,010 U
67	0603053A Advanced Command and Control Vehicle	4	14,794	20,389	U
68	0603303A Surface-to-Surface Missile Rocket System	4	45,944		U
69	0603604A Nuclear Munitions - Adv Dev	4	3,315	3,053	2,006 U
70	0603612A Advanced Anti-Tank Weapon Systems	4	107,219		U
71	0603617A Non-Line of Sight (N-LOS)	4	8,800		34,702 U
72	0603619A Landmine Warfare and Barrier - Adv Dev	4	7,367	12,761	21,685 U
73	0603627A Smoke, Obscurant and Target Defeating Sys-Adv Dev	4	12,748	17,918	6,046 U
74	0603639A Armament Enhancement Initiative	4			U
75	0603640A Artillery Propellant Development	4	7,890	16,127	12,033 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Army  
FY 1994 R D I & E Program

Exhibit R-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c
76 0603645A	Armored System Modernization - Adv Dev	4	297,719	314,146	148,342 U
77 0603647A	TRACTOR DIRT	4			265 U
78 0603649A	Engineer Mobility Equipment Advanced Development	4		11,492	29,464 U
79 0603653A	Advanced Tank Armament System (ATAS)	4			5,435 U
80 0603713A	Army Data Distribution System	4	22,981	12,697	11,757 U
81 0603730A	Tactical Surveillance System - Adv Dev	4	16,535	14,134	15,422 U
82 0603745A	Tactical Electronic Support Systems - Adv Dev	4	3,300	2,938	4,363 U
83 0603746A	Single Channel Ground and Airborne Radio System (SINGARS) Adv Dev	4	1,670	4,930	U
84 0603747A	Soldier Support and Survivability	4	9,438	13,161	13,193 U
85 0603757A	Forward Area Air Defense (FAAD) System	4	54,924		U
86 0603766A	Tactical Electronic Surveillance System - Adv Dev	4	18,001	14,022	15,373 U
87 0603774A	Night Vision Systems Advanced Development	4	5,343	7,440	4,794 U
88 0603778A	MLRS Product Improvement Program	4	20,213	23,669	40,915 U
89 0603801A	Aviation - Adv Dev	4	13,681	16,304	10,759 U
90 0603802A	Weapons and Munitions - Adv Dev	4			764 U
91 0603804A	Logistics and Engineer Equipment - Adv Dev	4	20,608	14,471	14,650 U
92 0603805A	Combat Service Support Computer System Evaluation and Analysis	4	30,148	18,746	20,502 U
93 0603806A	NBC Defense System-Adv Dev	4	31,434	29,380	32,163 U
94 0603807A	Medical Systems - Adv Dev	4	30,153	27,459	27,628 U
95 0603808A	Classified Program	4	9,251		U

UNCLASSIFIED

Page A 5

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 2040 A Research Development Test &amp; Eval Army

Line No	Program Element Number	Item	ACT	Funds of Dollars		
				FY 1992	FY 1993	FY 1994 U
96	0603811A	Meteorological Data Systems	4	3,353	4,055	U
97	0603813A	IRACIOR FULL	4	8,664		U
98	0604201A	Aircraft Avionics	4			5,061 U
99	0604202A	Aircraft Weapons	4	4,013		U
100	0604220A	Armed, Deployable OH-58D	4	9,171	7,659	U
101	0604223A	Comanche	4	514,530	355,166	367,080 U
102	0604270A	EW Development	4	202,218	92,520	60,453 U
103	0604315A	Tri-Service Standoff Attack Missile	4			89,682 U
104	0604321A	All Source Analysis System	4	105,172	51,476	971 U
105	0604328A	Not Used	4			U
106	0604603A	Nuclear Munitions - Eng Dev	4	1,730	4,539	U
107	0604604A	Medium Tactical Vehicles	4	22,578	2,781	6,548 U
108	0604609A	Smoke, Obscurant and Target Defeating Sys-Eng Dev	4	13,295	10,692	17,118 U
109	0604611A	JAVELIN	4	118,297	95,929	41,937 U
110	0604619A	Landmine Warfare	4	34,616	22,869	21,322 U
111	0604622A	Heavy Tactical Vehicles	4	2,214	1,853	476 U
112	0604630A	Advanced Tank Cannon	4	35,995	25,571	U
113	0604633A	Air Traffic Control	4	3,278	2,329	5,607 U
114	0604640A	Advanced Command and Control Vehicle (AC2V)	4			8,654 U
115	0604642A	Light Tactical Wheeled Vehicles	4			2,064 U

Page A-6

UNCLASSIFIED

## UNCLASSIFIED

Department of the Army  
FY 1994 R U I & E Program

Exhibit R-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	Thousands of Dollars	
						FY 1994	C
116	0604645A	Armored Systems Modernization (ASM)-Eng. Dev.	4	42,348	72,027	89,504	U
117	0604649A	Engineer Mobility Equipment Development	4	7,900	2,116	13,304	U
118	0604710A	Night Vision Systems - Eng Dev	4	36,544	23,955	41,827	U
119	0604713A	Combat Feeding, Clothing, and Equipment	4	27,900	25,964	28,425	U
120	0604715A	Non-System Training Devices - Eng Dev	4	66,000	42,906	62,669	U
121	0604726A	Integrated Meteorological Support System	4	4,411	905	949	U
122	0604740A	Tactical Surveillance System - Eng Dev	4	21,398	18,944	36,815	U
123	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	4	31,415	38,341	15,424	U
124	0604746A	Automatic Test Equipment Development	4	17,928	16,521	14,472	U
125	0604766A	Tactical Electronic Surveillance System - Eng Dev	4	20,451	32,275	52,547	U
126	0604767A	TRACTOR JEWEL	4	79,806	90,975		U
127	0604768A	TRACTOR BAT	4	118,286	114,835	117,008	U
128	0604769A	TRACTOR HELM	4	31,387			U
129	0604770A	Joint Surveillance/Target Attack Radar System	4	67,790	62,625	26,260	U
130	0604780A	Combined Arms Tactical Trainer (CATT)	4			52,988	U
131	0604801A	Aviation - Eng Dev	4	13,800	15,349	5,733	U
132	0604802A	Weapons and Munitions - Eng Dev	4	1,861	4,834	15,365	U
133	0604804A	Logistics and Engineer Equipment - Eng Dev	4	23,542	20,892	29,372	U
134	0604805A	Command, Control, Communications Systems - Eng Dev	4	5,612	7,159	9,244	U
135	0604806A	NBC Defense System-Eng Dev	4	47,062	39,290	42,898	U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994	Thousands of Dollars
136 0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	4	23,290	19,109	21,128	U
137 0604808A	Landmine Warfare/Barrier - Eng Dev	4	10,365	2,787	2,957	U
138 0604812A	Classified Program	4	45,875			U
139 0604814A	Sense and Destroy Armament Missile - Eng Dev	4	148,165	92,686	41,011	U
140 0604816A	LONGBOW - Eng Dev	4	248,626	290,083	277,934	U
141 0604817A	Non-Cooperative Target Recognition - Eng Dev	4	28,152	26,081	34,547	U
142 0604818A	Army Tactical Command & Control Systems (ATCCS) Eng Dev	4	25,396	19,484	37,227	U
143 0604820A	Radar Development	4	39,378	17,656	25,834	U
144 0605710A	JTCB POC, Test/Assess, Smoke Assess, NBC Serv	4	10,765			U
145 0102830A	Classified Program	4				U
146 0603831A	Classified Program	4				U
147 0203726A	Adv Field Artillery Tactical Data System	4	49,143	39,381	46,285	U
148 0203735A	Combat Vehicle Improvement Programs	4	72,694	36,213	69,972	U
149 0203740A	Maneuver Control System	4	36,793	26,951	29,702	U
150 0203744A	Aircraft Modifications/Product Improvement Programs	4	5,845	7,421	19,410	U
151 0203752A	Aircraft Engine Component Improvement Program	4	6,285	6,318	6,567	U
152 0203755A	Field Artillery Ammunition Support Vehicle	4	806			U
153 0203801A	Missile/Air Defense Product Improvement Program	4	58,848	67,939	59,782	U
154 0203802A	Other Missile Product Improvement Programs	4	54,420	4,729	66,438	U
155 0203806A	TRACTOR RIG	4	12,350	5,508	8,314	U

UNCLASSIFIED

Page A-8

## UNCLASSIFIED

Department of the Army  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c e
					Thousands of Dollars
156	0203808A TRACTOR CARD	4	8,537	6,629	7,615 U
157	0208010A Joint Tactical Communications Program (TRI-TAC)	4	4,966	7,178	16,529 U
Tactical Programs					
158	0604716A Terrain Information - Eng Dev	5	14,274	11,507	9,929 U
159	0604778A Positioning Systems Development	5	2,808	9,657	4,921 U
160	0301359A Special Army Program	5			U
161	0303140A Information Systems Security Program	5	6,615	6,118	7,122 U
162	0303142A SATCOM Ground Environment	5	102,148	110,148	153,931 U
163	0305127A Foreign Counterintelligence Activities	5			U
164	0305889A Intelligence Support to OSD Counternarcotics	5	9,600		U
Intelligence and Communications					
165	0604256A Threat Simulator Development	6	26,770	26,774	18,233 U
166	0604258A Target Systems Development	6	12,141	9,866	18,945 U
167	0604759A Major T&E Investment	6	18,427	20,738	28,893 U
168	0605103A Rand Arroyo Center	6	16,737	19,111	15,492 U
169	0605301A Army Kwajalein Atoll	6	195,257	181,899	171,380 U
170	0605502A Small Business Innovative Research	6	62,948	54,543	U
171	0605601A Army Test Ranges and Facilities	6	174,335	154,817	145,415 U
172	0605602A Army Technical Test Instrumentation and Targets	6	76,593	62,511	25,540 U

UNCLASSIFIED

Page A-9

## UNCLASSIFIED

Department of the Army  
FY 1994 RDT & E Program

Exhibit R-1

## Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 e
Thousands of Dollars					
173 0605604A	Survivability/Lethality Analysis	6	51,496	38,485	33,179 U
174 0605605A	DOD High Energy Laser Test Facility	6	27,902	26,405	4,808 U
175 0605702A	Meteorological Support to RDT&E Activities	6	20,371	17,999	17,970 U
176 0605706A	Matériel Systems Analysis	6	23,872	22,001	19,500 U
177 0605709A	Exploitation of Foreign Items	6	30,155	18,581	18,779 U
178 0605710A	JTCB POC, Test/Assess, Smoke Assess, NBC Serv	6	10,082	10,082	7,404 U
179 0605712A	Support of Operational Testing	6	64,812	57,535	58,433 U
180 0605801A	Programwide Activities	6	95,720	86,765	96,011 U
181 0605802A	International Cooperative Research and Developmen	6	1,485	1,820	1,861 U
182 0605803A	Technical Information Activities	6	21,541	22,160	12,007 U
183 0605805A	Munitions Standardization, Effectiveness and Safety	6	12,863	15,875	13,763 U
184 0605810A	RDT&E Support for Nondevelopmental Items	6	8,041	5,765	5,881 U
185 0605856A	Environmental Compliance	6	46,670	35,640	44,014 U
186 0605872A	Productivity Investments	6	21,284	11,108	U
187 0605876A	Minor Construction (RPM) - RDT&E	6	6,774	8,130	1,873 U
188 0605878A	Maintenance and Repair (RPM) - RDT&E	6	74,756	76,766	61,448 U
189 0605896A	Base Operations - RDT&E	6	311,825	297,474	274,409 U
190 0605898A	Management Headquarters (Research and Development	6	14,421	20,196	11,951 U
191 0708045A	End Item Industrial Preparedness Activities	6	27,927	32,592	U
192 0901600A	Contract Administration/Audit	6			92,012 U
Defensewide Mission Support					
			1,445,123	1,335,638	1,199,201
Total Research Development Test & Eval Army					
			6,436,946	6,015,110	5,249,948

UNCLASSIFIED

Page A-10



UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

## Summary

Thousands of Dollars

	FY 1992	FY 1993	FY 1994
Research	391,934	425,590	433,907
Exploratory Development	487,810	656,039	530,119
Advanced Development	2,312,089	2,394,754	2,166,863
Engineering Development	2,636,420	2,400,991	2,382,273
Management and Support	614,487	598,854	600,307
Research and Development (FYDP Program 6)	6,442,740	6,476,228	6,113,469
Operational Systems Development	2,200,154	2,457,308	3,102,135
Total Research Development Test & Eval Navy	8,642,894	8,933,536	9,215,604

## Summary Recap of Research Categories

Research	391,934	425,590	433,907
Exploratory Development	487,810	656,039	530,119
Advanced Development	2,312,089	2,394,754	2,166,863
Engineering Development	2,636,420	2,400,991	2,382,273
Management and Support	614,487	598,854	600,307
Research and Development (FYDP Program 6)	6,442,740	6,476,228	6,113,469
Operational Systems Development	2,200,154	2,457,308	3,102,135
Total Research Development Test & Eval Navy	8,642,894	8,933,536	9,215,604

## Summary Recap of Budget Activities

Technology Base	879,744	1,081,629	964,026
Advanced Technology Development	238,176	451,883	425,288
Strategic Programs	230,521	235,114	141,648
Tactical Programs	5,704,648	5,689,306	6,018,884
Intelligence and Communications	816,991	637,087	744,979
Defensewide Mission Support	772,814	838,517	920,779
Total Research Development Test & Eval Navy	8,642,894	8,933,536	9,215,604

## Summary Recap of FYDP Programs

Strategic Forces	201,517	211,046	135,849
General Purpose Forces	1,147,034	1,531,149	2,106,568
Intelligence and Communications	782,737	615,628	695,358
Research and Development (FYDP Program 6)	6,442,740	6,476,228	6,113,469
Central Supply and Maintenance	68,756	99,485	164,360
Administration and Assoc Activities	110		
Total Research Development Test & Eval Navy	8,642,894	8,933,536	9,215,604

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994	
1	0601152N	In-House Independent Laboratory Research	1	14,000	16,746	16,985	U
2	0601153N	Defense Research Sciences	1	377,934	408,844	416,922	U
3	0602111N	Surface/Aerospace Surveillance and Weapons Technology	1	68,677	70,942	67,305	U
4	0602121N	Surface Ship Technology	1	31,924	46,019	17,495	U
5	0602122N	Aircraft Technology	1	20,098	25,061	21,253	U
6	0602131M	Marine Corps Landing Force Technology	1	18,036	20,216	17,225	U
7	0602232N	Command, Control, and Communications Technology	1	15,984	20,078	18,155	U
8	0602233N	Mission Support Technology	1	32,102	42,953	34,424	U
9	0602234N	Materials, Electronics and Computer Technology	1	78,977	94,645	71,063	U
10	0602270N	Electronic Warfare Technology	1	12,485	16,472	14,896	U
11	0602314N	Undersea Surveillance Weapon Technology	1	129,885	134,580	107,960	U
12	0602315N	Mine Countermeasures, Mining and Special Warfare Technology	1	21,430	41,154	21,944	U
13	0602323N	Submarine Technology	1	16,611	17,589	14,575	U
14	0602435N	Oceanographic and Atmospheric Technology	1	41,601	44,887	37,711	U
15	0602790N	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		81,443	86,113	U
	Technology Base			879,744	1,081,629	964,026	
16	0603217N	Air Systems Advanced Technology Development	2	8,902	28,755	30,005	U
17	0603238N	Global Surveillance/Air Defense/Precision Strike Technology Demonstration	2		9,351	50,999	U
18	0603270N	Advanced Electronic Warfare Technology	2	4,865	27,913	12,983	U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c
					Thousands of Dollars
19	0603508N Ship Propulsion System	2	4,445	3,914	3,439 U
20	0603555N Undersea Superiority Technology Demonstration	2		61,029	95,438 U
21	0603563N Ship Concept Advanced Design	2	3,710	8,033	18,820 U
22	0603640M Marine Corps Advanced Technology Demonstration (ATD)	2	15,989	25,348	35,815 U
23	0603706N Medical Development	2	35,568	45,887	16,956 U
24	0603707N Manpower, Personnel and Training Adv Tech Dev	2	13,027	17,588	18,652 U
25	0603712N Generic Logistics R&D Technology Demonstrations	2	17,838	28,549	13,720 U
26	0603747N Advanced Anti-Submarine Warfare Technology	2	50,908	74,838	49,172 U
27	0603782N Shallow Water MCM Demos	2	4,914	9,848	5,148 U
28	0603792N Advanced Technology Transition	2	61,645	86,599	63,394 U
29	0603794N C3 Advanced Technology	2	16,365	24,231	10,747 U
	Advanced Technology Development		238,176	451,883	425,288
30	0603451N Tactical Space Operations	3	4,075		2,018 U
31	0603735N WWMCCS Architecture Support	3	16	1,602	U
32	0603741N Satellite Laser Communications (H)	3	10,000	14,226	U
33	0605856N Strategic Technical Support	3	10,645	4,553	3,781 U
34	0101221N Strategic Sub & Weapons System Support	3	80,602	75,264	54,295 U
35	0101224N SSBN Security/Survivability Program	3	69,667	76,543	27,835 U
36	0101226N Submarine Acoustic Warfare Development	3	36,347	38,823	16,800 U

Page N-2

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 RDT & E Program

Exhibit R-1

## Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line No	Program Element No	Item	Act	Thousands of Dollars			U
				FY 1992	FY 1993	FY 1994 c	
37	0101402N	Navy Strategic Communications	3	14,046	19,553	36,184	U
38	0102427N	Naval Space Surveillance	3	855	863	735	U
39	0303152N	World-Wide Military Command and Control Systems. Information System	3	4,268	3,687		U
Strategic Programs							
40	0603109N	Integrated Aircraft Avionics	4	24,528	235,114	141,648	U
41	0603207N	Air/Ocean Tactical Applications	4	18,035	16,237	16,239	U
42	0603208N	Training System Aircraft	4	48,056	49,165	32,565	U
43	0603216N	Aviation Survivability	4	27,986	32,049	13,672	U
44	0603231N	Next Generation Fighter	4	1,975			U
45	0603254N	ASW Systems Development	4	28,733	39,380	35,238	U
46	0603261N	Tactical Airborne Reconnaissance	4	13,776	14,444	30,358	U
47	0603320N	Low Cost Anti-Radiation Seeker	4	3,949			U
48	0603321N	Advanced Air-to-Air Missile (AAAM)	4	87,488			U
49	0603382N	Advanced Combat Systems Technology	4			3,750	U
50	0603502N	Undersea Warfare & MCM Development	4	51,505	42,152	65,660	U
51	0603504N	Advanced Submarine Combat Systems Development	4	39,697	32,137	20,341	U
52	0603506N	Surface Ship Torpedo Defense	4	56,529	27,085	34,482	U
53	0603512N	Carrier Systems Development	4	20,991	20,672	11,221	U
54	0603513N	Shipboard System Component Development	4	27,649	30,229	27,824	U

UNCLASSIFIED

Page N-3

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line Element No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994	
55	0603514N	Ship Combat Survivability	4	24,241	22,606	17,315	U
56	0603525N	PILOT FISH	4	54,215	34,947	26,884	U
57	0603528N	Non-Acoustic Anti-Submarine Warfare (ASW)	4			13,999	U
58	0603536N	RETRACT JUNIPER	4	50,199	60,676	32,560	U
59	0603542N	Radiological Control	4	2,857	3,599	3,291	U
60	0603553N	Surface ASW	4	65,913	46,606	21,150	U
61	0603561N	Advanced Submarine System Development	4	57,978	128,093	142,068	U
62	0603562N	Submarine Tactical Warfare Systems	4	11,470	10,946	9,518	U
63	0603564N	Ship Preliminary Design & Feasibility Studies	4	1,240	12,943	58,764	U
64	0603570N	Advanced Nuclear Power Systems	4	88,695	92,126	136,651	U
65	0603573N	Advanced Surface Machinery Systems	4	38,997	73,610	92,328	U
66	0603576N	CHALK EAGLE	4	133,702	82,704	71,003	U
67	0603582N	Combat System Integration	4	10,322	9,626	6,842	U
68	0603591N	Joint Advanced Systems	4	129,846	145,576		U
69	0603601N	Mine Development	4	6,560			U
70	0603609N	Conventional Munitions	4	42,653	60,518	42,632	U
71	0603610N	Advanced Warhead Development (MK-50)	4	6,587	8,824		U
72	0603611M	Marine Corps Assault Vehicles	4	41,075	52,771	20,554	U
73	0603612M	Marine Corps Mine/Countermeasures Systems - Adv Dev	4			2,743	U
74	0603634N	Electromagnetic Effects Protection Development	4	3,962	7,549	5,104	U

Page N-4

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 1319 N Research Development Test &amp; Eval Navy

Program Line Element No	Item	Act	Thousands of Dollars			e
			FY 1992	FY 1993	FY 1994	
75	0603635M Marine Corps Ground Combat/Support System	4	7,781	22,258	27,624	U
76	0603654N Joint Service Explosive Ordnance Development	4	8,171	9,108	9,359	U
77	0603691N MK 48 ADCAP - Adv Dev	4	14,659	30,768	27,248	U
78	0603708N ASW Signal Processing	4	3,262	3,325		U
79	0603709N Advanced Marine Biological System	4	4,765	4,506	3,470	U
80	0603711N Fleet Tactical Development and Evaluation Program	4	6,107	5,388	4,464	U
81	0603713N Ocean Engineering Technology Development	4	17,455	13,319	11,783	U
82	0603724N Navy Energy Program	4	4,678	5,123	4,329	U
83	0603725N Facilities Improvement	4	462	1,533	1,383	U
84	0603726N Merchant Ship Naval Augmentation Program	4	1			U
85	0603734N CHALK CORAL	4	66,708	61,986	71,969	U
86	0603737N LINK HAZEL	4	13,025	23,369		U
87	0603740N LINK LAUREL	4	36,957			U
88	0603746N RETRACT MAPLE	4	141,517	143,987	124,408	U
89	0603748N LINK PLUMERIA	4	20,625	14,717	40,109	U
90	0603750N CHALK WEED	4	1,354	2,601		U
91	0603751N RETRACT ELM	4	147,293	107,225	62,997	U
92	0603752N CHALK POINSETTIA	4	1,606	5,961		U
93	0603755N Ship Self Defense	4	220,407	210,329	237,204	U
94	0603763N Warfare Systems Architecture and Engineering	4	7,255	7,914	7,033	U

UNCLASSIFIED

Page N-5

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line No	Program Element Number	Item	Act	Thousands of Dollars		
				FY 1992	FY 1993	FY 1994 e c
95	0603785N	Combat Systems Oceanographic Performance Assessment	4	26,273	25,699	19,850 U
96	0603787N	Special Processes	4	54,596	32,256	29,863 U
97	0603795N	Gun Weapon System Technology	4	7,570	11,122	17,247 U
98	0604212N	ASW and Other Helo Development	4	73,137	94,289	82,243 U
99	0604214N	AV-8B Aircraft - Eng Dev	4	9,084	11,735	18,284 U
100	0604215N	Standards Development	4	16,450	11,555	13,724 U
101	0604217N	S-3 Weapon System Improvement	4		1,095	4,187 U
102	0604218N	Air/Ocean Equipment Engineering	4	6,398	6,151	6,028 U
103	0604221N	P-3 Modernization Program	4	75,927	13,025	15,134 U
104	0604233N	AFX	4		155,884	399,218 U
105	0604261N	Acoustic Search Sensors	4	23,961	31,954	31,775 U
106	0604262N	V-22A	4	780,708	723,748	82,295 U
107	0604264N	Air Crew Systems Development	4	21,149	20,694	11,126 U
108	0604265N	Air Launched Saturation System (ALSS)	4	16,792		U
109	0604270N	EW Development	4	73,674	134,377	128,850 U
110	0604301N	MK 92 Fire Control System Upgrade	4	1,978	1,831	1,063 U
111	0604307N	AEQIS Combat System Engineering	4	92,505	110,545	103,995 U
112	0604312N	Tri-Service Standoff Attack Missile	4			75,430 U
113	0604314N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	4	2,599	2,649	15,159 U
114	0604354N	Air-to-Air Missile Systems Engineering	4			7,098 U

Page N-6

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D I & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line Element No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994 c	
115	0604366N	Standard Missile Improvements	4	70,313	50,106	63,022	U
116	0604372N	New Threat Upgrade	4	9,809	5,843	4,662	U
117	0604373N	Airborne MCM	4	28,803	30,398	33,155	U
118	0604503N	SSN-688 and Trident Modernization	4	56,624	72,151	56,549	U
119	0604504N	Air Control	4	7,300	13,359	9,993	U
120	0604507N	Enhanced Modular Signal Processor	4	20,014	14,527	13,443	U
121	0604512N	Shipboard Aviation Systems	4			1,404	U
122	0604516N	Ship Survivability	4	10,583	10,900	10,292	U
123	0604518N	Combat Information Center Conversion	4	8,883	17,740	11,534	U
124	0604524N	Submarine Combat System	4	261,050	52,474	87,481	U
125	0604558N	New Design SSN	4			240,222	U
126	0604561N	SSN-21 Developments	4	154,027	91,100	76,129	U
127	0604562N	Submarine Tactical Warfare System	4	81,372	61,738	25,427	U
128	0604567N	Ship Contract Design/ Live Fire T&E	4	50,116	36,089	47,137	U
129	0604574N	Navy Tactical Computer Resources	4	33,099	31,887	17,572	U
130	0604601N	Mine Development	4	8,673	8,044	5,666	U
131	0604602N	Naval Gunnery Improvements	4	4,409	5,014		U
132	0604603N	Unguided Conventional Air-Launched Weapons	4	12,228	10,162	29,972	U
133	0604610N	MK 50 Torpedo	4	5,965			U
134	0604612M	Marine Corps Mine Countermeasures Systems Dev	4	1,239	2,845	1,298	U

UNCLASSIFIED



UNCLASSIFIED

Department of the Navy  
FY 1994 R O I & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line No	Program Element Number	Item	Act	Thousands of Dollars			S
				FY 1992	FY 1993	FY 1994	
135	0604618N	Joint Direct Attack Munition	4	10,306	24,697	10,352	U
136	0604654N	Joint Service Explosive Ordnance Development	4	5,665	5,737	6,266	U
137	0604656M	Marine Corps Assault Vehicles - Eng Dev	4	19,100	13,995		U
138	0604707N	pace and Electronic Warfare (SEW) Architecture/ Engineering Support	4		2,715	11,916	U
139	0604710N	Navy Energy Program	4	3,351	3,857	3,137	U
140	0604715N	Surface Warfare Training Devices	4	1,224	4,734		U
141	0604719M	Marine Corps Command/Control/Communications Systems	4	17,614	11,527	26,223	U
142	0604727N	Joint Standoff Weapon Systems	4	47,666	63,343	80,503	U
143	0604755N	Ship Self Defense	4	64,388	58,081	116,760	U
144	0604761N	Intelligence	4	2,014	1,872	345	U
145	0604771N	Medical Developments	4	4,129	3,915	4,030	U
146	0604777N	Navigation/ID System	4	85,831	67,753	80,047	U
147	0604784N	Distributed Surveillance System	4	234,516	159,213	135,879	U
148	0605867N	SEW Surveillance/Reconnaissance Support	4	13,726	10,508	17,863	U
149	0204134N	A-6 Squadrons	4	6,657	7,599		U
150	0204136N	F/A-18 Squadrons	4	418,711	895,457	1,485,496	U
151	0204152N	E-2 Squadrons	4	6,268	6,352	48,930	U
152	0204163N	Fleet Telecommunications (Tactical)	4	35,830	42,892	34,435	U
153	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	4	60,880	30,604	47,440	U
154	0204311N	Integrated Surveillance System	4	91,055	89,522	71,781	U

UNCLASSIFIED

Page N-8

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line Element No	Program Element Number	Item	Act	Thousands of Dollars		
				FY 1992	FY 1993	FY 1994 e
155	0204413N	Amphibious Tactical Support Units	4	3,344	3,378	2,823 U
156	0204571N	Consolidated Training Systems Development	4	33,805	33,307	37,200 U
157	0205604N	Tactical Data Links	4	81,626	60,894	39,562 U
158	0205620N	Surface ASW Combat System Integration	4	75,051	16,910	24,905 U
159	0205633N	Aviation Improvements	4	56,243	78,657	74,976 U
160	0205667N	F-14 Upgrade	4	115,068	120,064	71,935 U
161	0205675N	Operational Reactor Development	4	60,986	59,274	57,784 U
162	0206313M	Marine Corps Communications	4	4,445	4,794	9,151 U
163	0206623M	Marine Corps Ground Combat/Supporting Arms System	4	39,284	34,169	24,259 U
164	0206624M	Marine Corps Combat Services Support	4	1,816	768	9,656 U
165	0206625M	Marine Corps Intelligence/Electronics Warfare Systems	4	26,765	25,334	22,772 U
166	0206626M	Marine Corps Command/Control/Communications Systems	4	24,477	13,710	36,735 U
Tactical Programs				5,704,648	5,689,306	6,018,884
167	0604231N	Tactical Command System	5	41,259	26,034	30,617 U
168	0604721N	Battle Group Passive Horizon Extension System	5		10,781	24,735 U
169	0605866N	Navy Space and Electronic Warfare (SEW) Support	5	6,887	4,929	5,819 U
170	0301327N	Technical Reconnaissance and Surveillance	5			U
171	0303109N	Satellite Communications	5	67,490	53,715	55,782 U
172	0303140N	Information Systems Security Program	5			U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 RDT & E Program

Exhibit B-1

## Appropriation: 1319 N Research Development Test &amp; Eval Navy

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 e	Thousands of Dollars
173	0304111N Special Activities	5				U
174	0305883N Intelligence Support to OSD Counternarcotics	5	7,000			U
	<b>Intelligence and Communications</b>		816,991	637,087	744,979	
175	0603721N Environmental Protection	6	25,886	27,278	44,461	U
176	0604256N Threat Simulator Development	6	20,777	29,038	29,857	U
177	0604258N Target Systems Development	6	22,205	37,615	37,474	U
178	0604703N Personnel, Training, Simulation, and Human Factor	6	1,775	1,087	1,069	U
179	0604759N Major T&E Investment	6	35,729	41,088	52,496	U
180	0605152N Studies and Analysis Support - Navy	6	5,902	2,660	3,856	U
181	0605154N Center for Naval Analyses	6	28,477	43,178	43,260	U
182	0605155N Fleet Tactical Development and Evaluation	6	15,338	3,337	4,456	U
183	0605502N Small Business Innovative Research	6	43,406			U
184	0605804N Technical Information Services	6	11,609	14,018	10,273	U
185	0605853N Management, Technical & International Support	6	12,972	10,265	12,787	U
186	0605861N RDT&E Science and Technology Management	6	57,931	64,288	60,767	U
187	0605862N RDT&E Instrumentation Modernization	6	14,924	22,285	39,419	U
188	0605863N RDT&E Ship and Aircraft Support	6	85,613	95,343	80,587	U
189	0605864N Test and Evaluation Support	6	291,063	307,131	293,422	U
190	0605865N Operational Test and Evaluation Capability	6	7,622	8,717	8,329	U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 1319 N Research Development Test &amp; Eval Navy

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars
191	0605871M	Marine Corps Tactical Exploitation of National Capabilities	6	1,247	1,191	1,314	U
192	0605872N	Productivity Investments	6	195	396		U
193	0605873M	Long Range Planning Support	6	6,930	6,055	14,374	U
194	0205658N	Navy Science Assistance Program	6	4,723	7,464	6,668	U
195	0305160N	Defense Meteorological Satellite Program (DMSP)	6	9,624	16,598	11,550	U
196	0708011N	Industrial Preparedness	6	68,756	99,485		U
197	0901600N	Contract Administration/Audit	6			164,360	U
198	0909999N	Financing for Cancelled Account Adjustments	6	110			U
		Defensewide Mission Support		772,814	838,517	920,779	
Total		Research Development Test & Eval Navy		8,642,894	8,933,536	9,215,604	

UNCLASSIFIED

Page N-11

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

## Summary

	Thousands of Dollars		
	FY 1992	FY 1993	FY 1994
Summary Recap of Research Categories			
Research	207,376	240,481	246,472
Exploratory Development	599,815	758,209	762,329
Advanced Development	1,216,670	1,102,834	701,527
Engineering Development	4,581,441	4,422,494	4,454,060
Management and Support	746,736	691,401	758,770
Research and Development (FYDP Program 6)	7,352,038	7,215,419	6,923,158
Operational Systems Development	5,787,086	5,940,179	6,771,826
Total Research Development Test & Eval AF	13,139,124	13,155,598	13,694,984
Summary Recap of Budget Activities			
Technology Base	807,191	998,690	1,008,801
Advanced Technology Development	678,510	699,689	589,332
Strategic Programs	3,553,016	3,443,775	2,986,396
Tactical Programs	4,420,435	4,180,317	4,910,864
Intelligence and Communications	2,183,018	2,409,816	2,291,341
Defensewide Mission Support	1,496,954	1,423,311	1,908,250
Total Research Development Test & Eval AF	13,139,124	13,155,598	13,694,984
Summary Recap of FYDP Programs			
Strategic Forces	390,217	148,477	223,858
General Purpose Forces	1,293,663	886,483	1,481,544
Intelligence and Communications	3,987,926	4,753,949	4,727,801
Airlift/Sealift	10,975	12,082	32,172
Research and Development (FYDP Program 6)	7,352,038	7,215,419	6,923,158
Central Supply and Maintenance	96,083	130,531	51,752
Training Medical and Other	5,199	5,135	1,926
Administration and Assoc Activities	3,023	3,522	248,953
Support of Other Nations			3,820
Total Research Development Test & Eval AF	13,139,124	13,155,598	13,694,984

Page F-1

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 c
			Thousands of Dollars			
1	0601101F	In-House Laboratory Independent Research	1	6,029	4,730	5,155 U
2	0601102F	Defense Research Sciences	1	201,347	235,751	241,317 U
3	0602101F	Geophysics	1	38,137	36,981	30,252 U
4	0602102F	Materials	1	65,284	71,768	70,805 U
5	0602201F	Aerospace Flight Dynamics	1	62,937	67,898	64,238 U
6	0602202F	Human Systems Technology	1	61,811	61,087	51,392 U
7	0602203F	Aerospace Propulsion	1	66,159	68,660	78,100 U
8	0602204F	Aerospace Avionics	1	74,838	70,935	74,835 U
9	0602205F	Personnel, Training and Simulation	1	28,251	31,208	28,942 U
10	0602206F	Civil Engineering and Environmental Quality	1	7,068	11,276	7,187 U
11	0602302F	Rocket Propulsion and Astronautics Technology	1	36,601	36,012	40,031 U
12	0602601F	Advanced Weapons	1	38,468	46,327	32,961 U
13	0602602F	Conventional Munitions	1	40,981	36,079	46,653 U
14	0602702F	Command Control and Communications	1	79,280	82,453	95,957 U
15	0602790F	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		137,525	140,976 U
Technology Base				807,191	998,690	1,008,801
16	0603106F	Logistics Systems Technology	2	12,917	14,014	14,318 U
17	0603112F	Advanced Materials for Weapon Systems	2	12,573	16,679	15,825 U
18	0603202F	Aerospace Propulsion Subsystems Integration	2	25,279	27,279	28,004 U

UNCLASSIFIED

Page F-1

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 993	FY 1994	
19	0603203F	Advanced Avionics for Aerospace Vehicles	2	32,818	40,146	49,226	U
20	0603205F	Aerospace Vehicle Technology	2	13,222	15,273	13,114	U
21	0603211F	Aerospace Structures	2	14,436	15,307	12,641	U
22	0603216F	Aerospace Propulsion and Power Technology	2	35,893	38,148	36,614	U
23	0603227F	Personnel, Training and Simulation Technology	2	7,877	8,968	8,818	U
24	0603231F	Crew Systems and Personnel Protection Technology	2	15,078	17,909	10,460	U
25	0603238F	Global Surveillance/Air Defense/Precision Strike Technology Demonstration	2		4,676	14,999	U
26	0603245F	Advanced Fighter Technology Integration	2	11,729	17,650	15,613	U
27	0603250F	Lincoln Laboratory	2	25,233	24,958	22,908	U
28	0603253F	Advanced Avionics Integration	2	15,240	23,077	30,384	U
29	0603269F	National Aero Space Plane Technology Program	2	198,114	141,244	43,259	U
30	0603270F	EW Technology	2	27,922	30,658	25,689	U
31	0603302F	Space and Missile Rocket Propulsion	2	6,758	12,640	10,027	U
32	0603311F	Ballistic Missile Technology	2	59,179	59,211	58,980	U
33	0603319F	Airborne Laser Technology	2			3,845	U
34	0603363F	Armament Technology Integration	2	1,782			U
35	0603401F	Advanced Spacecraft Technology	2	23,461	27,121	24,275	U
36	0603410F	Space Systems Environmental Interactions Technology	2	4,217	3,912	3,500	U
37	0603428F	Space Subsystems Technology	2	4,533	4,117		U
38	0603601F	Conventional Weapons Technology	2	27,311	25,257	25,964	U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e c	Thousands of Dollars
39	0603605F	Advanced Radiation Technology	2	62,330	81,251	55,415	U
40	0603707F	Weather Systems Technology	2	4,725	5,002	4,452	U
41	0603723F	Civil and Environmental Engineering Technology	2	10,990	10,552	8,435	U
42	0603726F	C3I Subsystem Integration	2	8,385	8,838	15,882	U
43	0603723F	Advanced Computing Technology	2	8,793	16,029	19,619	U
44	0603789F	C3 Advanced Development	2	7,715	9,173	17,066	U
		Advanced Technology Development		678,510	699,689	589,332	
45	0603105F	Olympic	3				U
46	0603110F	Special Evaluation Program	3				U
47	0603111F	Meridian	3				U
48	0603425F	Advanced Warning System	3	76,460			U
49	0604226F	B-1B (H)	3	5,322	80,597	93,543	U
50	0604240F	B-2 Advanced Technology Bomber	3	1,522,346	1,189,290	790,497	U
51	0604312F	ICBM Modernization	3	119,060	51,304		U
52	0604711F	Systems Survivability (Nuclear Effects)	3	6,566	6,038	3,643	U
53	0101113F	B-52 Squadrons	3	3,921	20,472		U
54	0101120F	Advanced Cruise Missile	3	39,300	19,543	25,393	U
55	0101142F	KC-135 Squadrons	3	5,730	3,499		U
56	0101213F	Minuteman Squadrons	3	57,697	26,750	184,335	U

UNCLASSIFIED

Page F-3



## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars
57	0101312F	PACCS and WWABNCP System EC-135 Class V Mods	3	1,298	1,978		U
58	0101313F	Strat War Planning System - USSTRATCOM	3	3,792	6,862		U
59	0101815F	Advanced Strategic Programs	3				U
60	0102310F	NCMC - TW/AA Systems	3	129,080			U
61	0102325F	Joint Surveillance System	3	7,945	4,355	3,246	U
62	0102411F	Surveillance Radar Stations/Sites	3	11,473	7,695	8,306	U
63	0102412F	Distant Early Warning (DEW) Radar Stations	3	2,195	2,444	2,578	U
64	0102423F	Ballistic Missile Early Warning System (BMEWS)	3	14,399			U
65	0102424F	SPACE TRACK	3	34,231			U
66	0102431F	Defense Support Program	3	51,459			U
67	0102432F	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System	3	966			U
68	0102433F	NUDET Detection System	3	6,812			U
69	0303131F	Minimum Essential Emergency Communications Network (MEECN)	3	19,938	12,975	35,634	U
70	0303152F	World-Wide Military Command and Control Systems, Information System	3	602			U
71	0303601F	Milstar Satellite Communications System (AF Terminals)	3	156,285	1,138,567	973,162	U
72	0303603F	Milstar Satellite Communications System	3	886,146			U
73	0303606F	UHF Satellite Communications	3			11,457	U
74	0305124F	Special Applications Program	3				U
75	0305145F	Arms Control Implementation	3	14,639	4,266	7,107	U
76	0305172F	Combined Advanced Applications	3				U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994	
77	0305181F	Western Space Launch Facility (WSLF)	3			9,546	U
78	0305182F	Eastern Space Launch Facility (ESLF)	3			41,242	U
79	0305892F	Special Analysis Activities	2				U
80	0305905F	Improved Space Based TW/AA	3		236,557	214,794	U
81	0305906F	NCMC - TW/AA System	3		151,101	141,841	U
82	0305909F	Ballistic Missile Early Warning System (BMEWS)	3		3,856	599	U
83	0305910F	SPACETRACK	3		71,502	45,246	U
84	0305911F	Defense Support Program	3		49,081	66,777	U
85	0305912F	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System	3		944		U
86	0305913F	NUDET Detection System	3		4,897	9,359	U
87	0401218F	KC-135s	3			20,811	U
Strategic Programs							
88	0603107F	Technical Evaluation System	4	3,553,016	3,443,775	2,986,396	U
89	0603260F	Intelligence Advanced Development	4	4,374	7,170	6,134	U
90	0603307F	Air Base Operability Advanced Development	4	3,315	3,520	3,739	U
91	0603617F	Command, Control, and Communication Applications	4	3,159	3,861	9,395	U
92	0603714F	DoD Physical Security Equipment - Exterior	4	730	525	2,971	U
93	0603742F	Combat Identification Technology	4	23,674	18,169	28,759	U
94	0603801F	Special Programs	4				U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994 C	
95	0604201F	Aircraft Avionics Equipment Development	4	14,039	15,094		6,637 U
96	0604212F	Aircraft Equipment Development	4	3,919	3,804		1,532 U
97	0604218F	Engine Model Derivative Program (EMDP)	4	3,950	945		863 U
98	0604222F	Nuclear Weapons Support	4	5,735	5,296		5,475 U
99	0604231F	C-17 Program	4	256,855	168,717		179,799 U
100	0604233F	Specialized Undergraduate Pilot Training	4	4,196	4,392		36,835 U
101	0604237F	Variable Stability In-Flight Simulator Test	4	2,062	2,066		5,838 U
102	0604239F	Aircraft F-22 EMD	4	1,606,804	1,925,199		2,250,997 U
103	0604242F	Advanced Interdiction Aft (AX)	4	1,999	1,897		3,835 U
104	0604249F	Night/Precision Attack	4	3,125	25,094		82,210 U
105	0604258F	Aircraft Engine Component Improvement Program	4	110,854	104,096		102,704 U
106	0604270F	EW Development	4	194,705	154,496		143,433 U
107	0604321F	Joint Tactical Fusion Program	4	4,922	2,883		4,221 U
108	0604327F	Hardened Target Munitions	4	12,789	5,577		U
109	0604601F	Chemical/Biological Defense Equipment	4	11,509	15,356		9,874 U
110	0604602F	Armament/Ordnance Development	4	5,425	5,839		11,407 U
111	0604604F	Submunitions	4	4,990	7,063		3,835 U
112	0604607F	Wide-Area, Anti-Armor Munitions	4	9,697			U
113	0604617F	Air Base Operability	4	9,886	13,586		11,023 U
114	0604618F	Joint Direct Attack Munition	4		24,648		87,822 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Program Line Element No	Item	Act	Thousands of Dollars		
			FY 1992	FY 1993	FY 1994
115	0604703F Aeromedical/Chemical Defense Systems	4	6,368	6,559	10,260 U
116	0604704F Common Support Equipment Development	4	16,435	8,871	4,793 U
117	0604706F Life Support Systems	4	12,384	12,044	11,024 U
118	0604708F Civil, Fire, Environmental, Shelter Engineering	4	2,583	2,513	4,524 U
119	0604727F Joint Standoff Weapons Systems	4		5,463	24,614 U
120	0604733F Surface Defense Suppression	4	20,577	7,722	1,917 U
121	0604740F Computer Resource Technology Transition (CRTT)	4	17,690	20,192	7,137 U
122	0604750F Intelligence Equipment	4	2,919	2,853	2,875 U
123	0604754F Joint Tactical Information Distribution System (JTIDS)	4	15,415	15,140	16,113 U
124	0604756F Side Looking Airborne Radar	4		3,899	U
125	0604770F Joint Surveillance/Target Attack Radar System (JSTARS)	4	307,363	313,463	295,228 U
126	0604779F Joint Interoperability of Tactical Command & Control Systems (JINTACCS)	4	4,818	6,670	4,793 U
127	0207129F F-111 Squadrons	4	27,823	27,639	25,679 U
128	0207130F F-15A/B/C/D Squadrons	4		10,453	U
129	0207131F A-10 Squadrons	4	12,719		U
130	0207133F F-16 Squadrons	4	147,661	109,409	116,947 U
131	0207134F F-15E Squadrons	4	92,988	49,496	91,497 U
132	0207136F Manned Destructive Suppression	4	4,958	8,362	20,496 U
133	0207137F CONSTANT HELP	4			U
134	0207141F F-117A Squadrons	4	64,182	1,224	6,778 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e c
			Thousands of Dollars			
			---	-----	-----	-----
135	0207160F	Tri-Service Standoff Attack Missile	4			U
136	0207161F	Tactical AIM Missiles	4			33,887 U
137	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	4	30,309	33,273	69,785 U
138	0207217F	Follow-On Tactical Reconnaissance System	4	87,391	58,362	65,338 U
139	0207247F	AF TENCAP	4	858	4,099	14,722 U
140	0207248F	Special Evaluation Program	4	1,421	855	120,711 U
141	0207411F	Overseas Air Weapon Control System	4	1,905		19,570 U
142	0207412F	Tactical Air Control Systems	4	19,281	24,543	28,913 U
143	0207417F	Airborne Warning and Control System (AWACS)	4	201,974	62,927	87,066 U
144	0207419F	Tactical Airborne Command and Control Systems	4	6,389	5,958	U
145	0207423F	Advanced Communications Systems	4	3,441	471	478 U
146	0207424F	Evaluation and Analysis Program	4	14,159	15,389	75,384 U
147	0207431F	Tactical Air Intelligence System Activities	4			U
148	0207433F	Advanced Program Technology	4	30,552	22,454	148,114 U
149	0207438F	Theater Battle Management (TBM) C4I	4			12,518 U
150	0207579F	Advanced Systems Improvements	4	54,089	51,975	129,164 U
151	0207590F	Seek Eagle	4	18,248	28,976	15,171 U
152	0207591F	Advanced Program Evaluation	4	167,328	92,046	89,604 U
153	0208006F	Mission Planning Systems	4	12,383	14,480	24,249 U
154	0208010F	Joint Tactical Communications Program (TRI-TAC)	4	5,971	11,755	U

UNCLASSIFIED

UNCLASSIFIED

Department of the Air Force  
FY 1994 R O T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Line No	Program Element Number	Item	Act	Thousands of Dollars			U
				FY 1992	FY 1993	FY 1994	
155	0208021F	Electronic Combat Support	4				U
156	0208042F	HAVE FLAG	4				U
157	0303605F	Satellite Communications Terminals	4	1,544	4,145	1,399	U
158	0305137F	National Airspace System (NAS) Plan	4	4,176	6,672	18,773	U
159	0305142F	Applied Technology and Integration	4				U
160	0305158F	CONSTANT SOURCE	4	11,893	7,062	3,245	U
161	0305887F	Electronic Combat Intelligence Support	4	1,841	1,790	2,004	U
162	0401840F	MAC Command and Control System	4	10,975	12,082	11,361	U
Tactical Programs							
163	0102830F	Classified Program	5	4,420,435	4,180,317	4,910,864	U
164	0301305F	Intelligence Production Activities	5				U
165	0301310F	Foreign Technology Division	5				U
166	0301313F	Defense Dissemination Program	5				U
167	0301314F	Infrared/Electro-Optical/Dir. Energy Weapons Processing and Exploitation	5				U
168	0301315F	Missile and Space Technical Collection	5				U
169	0301317F	SENIOR YEAR Operations	5				U
170	0301324F	FOREST GREEN	5				U
171	0301339F	Intell Telecom and Defense Special Security Sys	5				U
172	0301357F	NUDET Detection System	5		2,564		U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Program Line Element No	Item	Act	Thousands of Dollars			U
			FY 1992	FY 1993	FY 1994 c	
173	0303110F Defense Satellite Communications System	5	13,765	12,856	25,522	U
174	0303126F Long-Haul Communications (DCS)	5	3,253	3,196		U
175	0303140F Information Systems Security Program	5			5,418	U
176	0303144F Electromagnetic Compatibility Analysis Center (ECAC)	5	10,029	9,733	9,978	U
177	0303401F Communications Security (COMSEC)	5				U
178	0304111F Special Activities	5				U
179	0305114F Air Traffic Control, Approach, and Landing System (ATCALS)	5	9,524	12,030	9,304	U
180	0305159F Defense Reconnaissance Support Activities	5				U
181	0305164F NAVSTAR Global Positioning System (User Equipment)	5	14,687	20,434	16,164	U
182	0305165F NAVSTAR Global Positioning System (Space and Control Segments)	5	51,293	56,112	38,990	U
	Intelligence and Communications		2,183,018	2,409,816	2,291,341	
183	0603402F Space Test Program	6	43,706	50,745	50,465	U
184	0603438F Satellite Systems Survivability	6	9,782	5,126	10,732	U
185	0604211F Advanced Aerial Target Development	6	19,349	20,559		U
186	0604227F Training Systems Development	6	41,142	35,118	30,015	U
187	0604243F Manpower, Personnel and Training Development	6	2,134	3,115	4,838	U
188	0604256F Threat Simulator Development	6			34,362	U
189	0604258F Target Systems Development	6			10,154	U
190	0604402F National Launch System	6	48,673	9,435	53,906	U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 360, F Research Development Test &amp; Eval AF

Line Element No	Program Element No	Item	Act	Thousands of Dollars			e	c
				FY 1992	FY 1993	FY 1994		
191	0604609F	R&M Maturation/Technology Insertion	6	18,253	21,692	20,593	U	
192	0604707F	Weather Systems - Eng Dev	6	5,497	6,119	9,379	U	
193	0604735F	Range Improvement	6	68,619	52,908	15,714	U	
194	0604747F	Electromagnetic Radiation Test Facilities	6	3,508	3,699		U	
195	0604755F	Improved Capability for Development Test & Evaluation	6	46,959	51,383		U	
196	0604759F	Major T&E Investment	6			55,798	U	
197	0605101F	RAND Project Air Force	6	22,488	22,380	26,748	U	
198	0605306F	Ranch Hand II Epidemiology Study	6	9,580	8,925	3,707	U	
199	0605502F	Small Business Innovative Research (H)	6	66,775			U	
200	0605708F	Navigation/Radar/Sled Track Test Support	6	25,682	26,074	28,313	U	
201	0605712F	Initial Operational Test & Evaluation	6	21,807	26,016	32,811	U	
202	0605807F	Test and Evaluation Support	6	369,903	386,983	399,930	U	
203	0605808F	Development Planning	6	8,697	9,611	9,796	U	
204	0605856F	Environmental Compliance	6		12,014	39,575	U	
205	0605863F	RDTE Aircraft Support	6	43,503	41,647	42,157	U	
206	0605876F	Minor Construction (RPM) - RDTE	5		2,899	7,739	U	
207	0605878F	Maintenance and Repair (RPM) - RDTE	6		50,918	46,020	U	
208	0605894F	Real Property Maintenance - RDTE (H)	6	102,493			U	
209	0605896F	Base Operations - RDTE	6	75,808	103,934	121,974	U	
210	0207601F	USAF Wargaming and Simulation	6			11,573	U	

Page F-11

UNCLASSIFIED



## UNCLASSIFIED

Department of the Air Force  
FY 1994 R U I & t Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Program Line Element No	Item	Alt	FY 1992	FY 1993	Thousands of Dollars	FY 1994 e
211	0305110F Satellite Control Network	6	108,344	97,053	110,164	U
212	0305119F Medium Launch Vehicles	6	40,404	49,659	58,502	U
213	0305130F AFSCN Operations	6	14,916			U
214	0305138F Upper Stage Space Vehicles	6	5,731	43,362	4,141	U
215	0305144F Titan Space Launch Vehicles	6	140,717	120,811	330,740	U
216	0305160F Defense Meteorological Satellite Program (DMSP)	6	28,179	21,938	31,953	U
217	0701112F Inventory Control Point Operations	6	2,941	1,131		U
218	0702207F Depot Maintenance (Non-IF)	6	2,928	2,729	1,830	U
219	0708011F Industrial Preparedness	6	59,994	98,553		U
220	0708012F Logistics Support Activities	6	6,543	5,811	6,336	U
221	0708026F Productivity, Reliability, Availability, Maintain, Prog Ofc (PRAMPO)	6	23,677	22,307	18,068	U
222	0708054F Pollution Prevention	6			25,518	U
223	0804734F Cryptologic/SIGINT-Related Skill Training	6			1,926	U
224	0901218F Civilian Compensation Program	6	5,199	5,135	5,775	U
225	0901600F Contract Administration/Audit	6			243,178	U
226	1001004F International Activities	6	3,023	3,522	3,820	U
	Defensewide Mission Support					
			1,496,954	1,423,311	1,908,250	
			13,139,124	13,155,598	13,694,984	
Total	Research Development Test & Eval AF					

UNCLASSIFIED

Page F-12

## UNCLASSIFIED

FY 1994 R D T & E Program  
Defensewide  
Exhibit R-1

## Summary

Thousands of Dollars

## Summary Recap of Research Categories

Research	348,171	440,273	357,129
Exploratory Development	1,187,880	1,379,497	1,203,148
Advanced Development	5,471,281	5,843,833	5,551,791
Engineering Development	135,407	101,516	129,730
Management and Support	182,089	85,829	415,051
Research and Development (FYDP Program 6)	7,324,828	7,850,948	7,656,849
Operational Systems Development	2,349,577	1,949,690	2,517,700
Total Research Development Test & Eval Defwide	9,674,405	9,800,638	10,174,549

## Summary Recap of Budget Activities

Technology Base	1,536,051	1,821,519	1,571,239
Advanced Technology Development	4,964,147	2,057,312	2,157,996
Strategic Programs	398,989	2,635,630	1,639,328
Tactical Programs	708,192	1,621,982	2,383,838
Intelligence and Communications	1,780,320	1,507,562	1,892,282
Defensewide Mission Support	286,706	156,633	529,866
Total Research Development Test & Eval Defwide	9,674,405	9,800,638	10,174,549

## Summary Recap of FYDP Programs

General Purpose Forces	56,795	25,959	29,281
Intelligence and Communications	1,976,047	1,688,003	2,067,377
Research and Development (FYDP Program 6)	7,324,828	7,850,948	7,656,849
Central Supply and Maintenance	16,900		
Administration and Assoc Activities	299,835	235,728	89,844
Special Operations Forces			331,198
Total Research Development Test & Eval Defwide	9,674,405	9,800,638	10,174,549

UNCLASSIFIED

Page D-1

## UNCLASSIFIED

Defensewide  
 FY 1994 R D T & E Program Exhibit R-1

## Summary

	Thousands of Dollars		
	FY 1992	FY 1993	FY 1994
<b>Summary Recap of Defensewide</b>			
Defense Mapping Agency	232,769	59,207	79,011
Strategic Defense Initiative Orgzn	3,906,897	3,724,800	3,637,135
Office of Secretary/Defense	1,423,995	1,523,176	1,703,942
Defense Advanced Research Projects Agcy	1,597,292	2,250,452	2,182,164
National Security Agency			
Defense Nuclear Agency	472,625	466,431	345,423
Defense Support Project Office	206,294	254,311	477,506
Joint Chiefs of Staff	58,776	26,236	24,451
Defense Information Systems Agency	142,912	90,094	71,815
Defense Intelligence Agency			
Central Imagery Office			
Defense Logistics Agency	38,753	18,612	12,796
Uniformed Services University (USUHS)	3,193	4,123	
Special Operations Command	299,835	235,728	335,854
<b>Total Research Development Test &amp; Eval Defwide</b>	<b>9,674,405</b>	<b>9,800,638</b>	<b>10,174,549</b>

UNCLASSIFIED

## UNCLASSIFIED

Defensewide  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e c
			Thousands of Dollars			
1	06011010	In-House Laboratory Independent Research	1			3,368 U
2	0601101E	Defense Research Sciences	1	115,790	109,629	79,657 U
3	0601101W	In-House Laboratory Independent Research	1	3,193	4,123	U
4	0601102D	Defense Research Sciences	1			2,021 U
5	0601103D	University Research Initiatives	1	219,591	317,144	242,611 U
6	0601109D	US-JAPAN Management Training	1	9,597	9,377	U
7	0601110D	Focused Research Initiatives	1			29,472 U
8	0602109H	Superconductive Magnetic Energy Storage	1	40,000	20,000	U
9	0602222D	Counterterror Technical Support	1	6,512	9,368	6,169 U
10	0602227D	Medical Free Electron Laser	1	23,000	18,755	19,248 U
11	0602228D	Historically Black Colleges and Universities (HBCU) Science and Engineer	1	15,000	14,066	U
12	0602301E	Computing Systems and Communications Technology	1	288,292	349,463	368,589 U
13	0602702E	Tactical Technology	1	128,052	98,019	143,891 U
14	0602707E	Particle Beam Technology	1	2,495		U
15	0602708E	Integrated Command and Control Technology	1	109,008	152,180	57,214 U
16	0602712E	Materials and Electronics Technology	1	198,409	255,112	198,502 U
17	0602714E	Treaty Verification	1	19,466		U
18	0602715H	Defense Nuclear Agency	1	357,646	384,722	288,388 U
19	0602756D	DoD Software Technology Initiative	1			43,304 U
20	0602787D	Medical Technology	1			6,737 U

UNCLASSIFIED

## UNCLASSIFIED

Defensewide  
FV 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Line No	Program Element No	Item	Act	FY 1992	FY 1993	FY 1994	Thousands of Dollars
21	0602790C	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		41,513	42,552	U
22	0602790D	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		15,249	24,703	U
23	0602790E	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		16,182		U
24	0602790H	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		4,868	3,851	U
25	0305108K	Command and Control Research	1			1,847	U
26	0901600H	Contract Administration/Audit	1			6,834	U
27	11602798B	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		1,749	2,281	U
<b>Technology Base</b>							
28	0602227D	Not Used	2	1,536,051	1,821,519	1,571,239	U
29	0603002D	Medical Advanced Technology	2			4,701	U
30	0603214C	Space Based Interceptors	2	434,020			U
31	0603215C	Limited Defense System	2	1,486,722			U
32	0603216C	Theater Missile Defenses	2	764,913			U
33	0603217C	Other Follow-On Systems	2	559,891	308,570	354,187	U
34	0603218C	Research and Support Activities	2	661,351			U
35	0603225D	Joint DoD-DoE Munitions Technology Development	2	17,422	17,795	16,446	U
36	0603226E	Experimental Evaluation of Major Innovative Technologies	2	249,495	286,568	512,198	U
37	0603227E	Relocatable Target Detection Technology Program	2	28,240			U
38	0603569E	Advanced Submarine Technology	2	71,458	52,049	32,556	U

UNCLASSIFIED

## UNCLASSIFIED

Defensewide  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Line Element No	Program Number	Item	Act	Thousands of Dollars			e
				FY 1992	FY 1993	FY 1994 c	
39	0603570E	Dual-Use Partnerships	2	60,000	561,633	324,000	U
40	0603704D	Special Technical Support	2	9,677	8,743	8,841	U
41	0603705D	Manufacturing Technology	2			147,733	U
42	0603716D	Strategic Environmental Research Program	2	77,612	169,940	97,958	U
43	0603718D	Medical Research	2	10,000			U
44	0603719D	Focus Hope	2	20,000			U
45	0603720D	Environmental Special Project	2	19,315			U
46	0603721D	DoD Environmental Studies Development	2	5,000			U
47	0603736D	Computer Aided Logistics Support	2	15,116	15,206	10,424	U
48	0603737D	Balanced Technology Initiative	2	122,110	141,721		U
49	0603738D	Cooperative DoD/VA Medical Research	2	19,501	28,561		U
50	0603739E	Manufacturing Technology	2	206,061	219,330	299,597	U
51	0603744E	Advanced Simulation	2		28,522	9,207	U
52	0603745E	Semiconductor Manufacturing Technology	2		34,845	100,000	U
53	0603755D	High Performance Computing Modernization Program	2			122,819	U
54	0603756D	Consolidated DoD Software Initiative	2	25,894	31,940	9,151	U
55	0603756E	Consolidated DoD Software Initiative	2	52,317			U
56	0603832D	Joint Wargaming Simulation Management Office	2		57,122	67,152	U
57	0604704D	Rocket Motor Demilitarization Program	2	26,377	15,847	12,267	U
58	0305108K	Command and Control Research	2	1,956	1,740		U

UNCLASSIFIED

Page D-3

## UNCLASSIFIED

Defensewide  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars
59	1160401BB Special Operations Technology Development	2	3,385	3,730	17,794	U
60	1160402BB Special Operations Advanced Technology Development	2	16,314	12,909	9,655	U
61	1160407BB SOF Medical Technology Development	2		541	1,310	U
	Advanced Technology Development		4,964,147	2,057,312	2,157,996	
62	0603214C Space Based Interceptors	3		270,000		U
63	0603215C Limited Defense System	3		1,714,144	1,195,459	U
64	0603217C Not Used	3				U
65	0603218C Research and Support Activities	3		363,073	358,223	U
66	0603711H Verification Technology Demonstration	3	74,979	56,841	46,350	U
67	0603734J Island Sun Support	3	58,776	20,550	15,822	U
68	0603741D Air Defense Initiative	3	199,458	162,197		U
69	0302016K National Military Command System-Wide Support	3	10,438	8,756	3,500	U
70	0302019K WWMCCS Systems Engineer	3	11,798	8,765	9,253	U
71	0303131K Minimum Essential Emergency Communications Network (MEECN)	3	3,659	3,195	3,285	U
72	0303154J WWMCCS ADP Modernization	3		3,900	7,000	U
73	0303154K WWMCCS ADP Modernization	3	39,881	24,209		U
74	0901600J Contract Administration/Audit	3			436	U
	Strategic Programs		398,989	2,635,630	1,639,328	
75	0603216C Theater Missile Defenses	4		1,018,110	1,636,304	U

UNCLASSIFIED

## UNCLASSIFIED

Defensewide  
FV 1994 R D T & F Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FV 1992	FV 1993	FV 1994 c
					Thousands of Dollars
76	0603228D Physical Security Equipment	4	56,473	25,233	20,676 U
77	0603709D Joint Robotics Program	4	20,106	18,399	22,125 U
78	0603710D Classified Program - C3I	4	10,115	44,185	9,912 U
79	0603714D Advanced Sensor Applications Program	4	42,333	43,471	25,920 U
80	0603715D AIM-9 Consolidated Program	4	37,659	14,281	9,593 U
81	0603724D Biological Defense - Advanced Development	4			26,355 U
82	0604225C Theater Missile Defenses	4		9,390	50,410 U
83	0604705D Mobile Offshore Base Analysis	4	2,850	6,563	U
84	0604771D Joint Tactical Information Distribution System (JTIDS)	4	106,180	69,716	67,053 U
85	0201135J JIN C2 Initiatives	4		1,786	1,193 U
86	0201135K CINC C2 Initiatives	4	1,803		U
87	0208045K C3 Interoperability (Joint Tactical C3 Agency)	4	48,099	24,173	28,088 U
88	0208298K Management Headquarters (Joint Tactical C3 Agency)	4	6,893		U
89	0305141D Joint Remotely Piloted Vehicles Program	4	99,728	131,046	180,112 U
90	0305815D General Support for SO/LIC	4	1,897		U
91	090160088 Contract Administration/Audit	4			4,656 U
92	0901600K Contract Administration/Audit	4			1,283 U
93	116040488 Special Operations Tactical Systems Development	4	208,009	118,621	221,305 U
94	116040588 Special Operations Intelligence Systems Development	4	10,057	27,254	6,686 U
95	116040888 SOF Operational Enhancements	4	55,990	69,754	72,167 U
Tactical Programs					
			708,192	1,621,982	2,383,838

Page D-5

UNCLASSIFIED



## UNCLASSIFIED

Defensewide  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line No	Program Element Number	Item	Act	Thousands of Dollars			U
				FY 1992	FY 1993	FY 1994 c	
96	0301011G	Cryptologic Activities	5				U
97	0301301L	General Defense Intelligence Program	5				U
98	0301308L	Missile Intelligence Agency	5				U
99	0303126K	Long-Haul Communications (DCS)	5	14,931	12,817	20,720	U
100	0303127K	Support of the National Communications System	5	3,454	3,155	3,839	U
101	0303132G	Global Grid Communications	5				U
102	0303140G	Information Systems Security Program	5				U
103	0303401G	Communications Security (COMSEC)	5				U
104	0304311D	Selected Activities	5		14,066		U
105	0305098L	Defense Support Activity - IPSG	5				U
106	0305106LC	Consolidated Imagery Activities	5				U
107	0305107LC	Tactical Imagery Activities	5				U
108	0305139B	DMA Mapping, Charting, and Geodesy (MC&G) Production System Improvement	5	226,521	53,080	66,334	U
109	0305154I	Airborne Reconnaissance Support Program	5	122,755	194,135	356,303	U
110	0305157I	Land Remote Sensing Satellite System	5		5,750	34,506	U
111	0305159B	Defense Reconnaissance Support Activities	5	6,248	6,127	11,320	U
112	0305159G	Defense Reconnaissance Support Activities	5				U
113	0305159I	Defense Reconnaissance Support Activities	5	83,539	54,426	81,872	U
114	0305167G	Computer Security	5				U
115	0305190D	C3I Intelligence Programs	5	8,001	12,084	6,754	U

UNCLASSIFIED

## UNCLASSIFIED

Defensewide  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defensewide

Program Line Element No	Item	Act	Thousands of Dollars			U
			FY 1992	FY 1993	FY 1994 c	
116	0305830K Center for Information Management	5	3,284			U
117	0305884L Intelligence Planning & Review Activities	5				U
118	0305885G Tactical Cryptologic Activities	5				U
119	0305889D Intelligence Support to OSD Counternarcotics	5	17,727			U
120	0305889G Intelligence Support to OSD Counternarcotics	5				U
121	0305889L Intelligence Support to OSD Counternarcotics	5				U
122	0305898L Management Headquarters (Auxiliary Forces)	5				U
123	0901600B Contract Administration/Audit	5			1,357	U
124	0901600G Contract Administration/Audit	5			23,451	U
125	0901600I Contract Administration/Audit	5			4,825	U
126	0901600L Contract Administration/Audit	5			269	U
127	11604098B Other Force Programs	5	6,080	1,170		U
	Intelligence and Communications		1,780,320	1,507,562	1,892,282	
128	0603705D Manufacturing Technology	6	18,694			U
129	0603708D Integrated Diagnostics	6	6,861	10,624	10,441	U
130	0603790D NATO Research and Development	6	10,881	60,180	57,641	U
131	0603832D Joint Wargaming Simulation Management Office	6	18,831			U
132	0605104D Technical Studies, Support and Analysis	6	36,509	30,799	37,434	U
133	0605114E BLACK LIGHT	6	4,000	4,770	4,875	U

UNCLASSIFIED

Page D-7

## UNCLASSIFIED

FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars
134	0605116D General Support to C3I	6	14,457			U
135	0605117D Foreign Material Acquisition and Exploitation	6	9,800	9,498	336,176	U
136	0605120S Technical Information Service	6	7,653	5,657		U
137	0605136D FCIMS Programs	6	26,700			U
138	0605137D Manufacturing Engineering Education	6	22,110			U
139	0605502D Small Business Innovative Research	6	14,316			U
140	0605502E Small Business Innovative Research	6	12,115			U
141	0605798S Defense Support Activities	6	14,200	12,955	12,561	U
142	0605872D Productivity Investments	6	585			U
143	0605898E Management Headquarters (Research and Development	6	19,644	22,150	24,005	U
144	0305889E Intelligence Support to OSD Counternarcotics	6	32,450			U
145	0708011S Industrial Preparedness	6	16,900			U
146	0901600U Contract Administration/Audit	6			18,625	U
147	0901600E Contract Administration/Audit	6			27,873	U
148	0901600S Contract Administration/Audit	6			235	U
	Defensewide Mission Support		286,706	156,633	529,866	
	Total Research Development Test & Eval Defwide		9,674,405	9,800,638	10,174,549	

UNCLASSIFIED

Page D-8

## UNCLASSIFIED

FY 1994 Defensewide  
R D T & E Program

Exhibit R-1

## Summary

	Thousands of Dollars			
	FY 1992	FY 1993	FY 1994	
Summary Recap of Research Categories				
Engineering Development	93,067	106,806	115,819	
Management and Support	117,158	152,215	156,773	
Research and Development (FYDP Program 6)	210,225	259,021	272,592	
Total Director of Test & Eval Defense	210,225	259,021	272,592	
Summary Recap of Budget Activities				
Defensewide Mission Support	210,225	259,021	272,592	
Total Director of Test & Eval Defense	210,225	259,021	272,592	
Summary Recap of FYDP Programs				
Research and Development (FYDP Program 6)	210,225	259,021	272,592	
Total Director of Test & Eval Defense	210,225	259,021	272,592	

UNCLASSIFIED

## UNCLASSIFIED

FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0450 D Director of Test & Eval Defense

Program Line Element No Number	Item	Act	FY 1992	FY 1993	FY 1994 c
1 06049400	Central Test and Evaluation Investment Development (CIEIP)	6	93,067	106,806	115,819 U
2 06051300	Foreign Comparative Testing	6	17,100	31,301	34,913 U
3 06051310	Live Fire Testing	6	16,008	10,331	7,725 U
4 06058040	Development Test and Evaluation	6	84,050	110,583	114,135 U
Defensewide Mission Support			210,225	259,021	272,592
Total Director of Test & Eval Defense			210,225	259,021	272,592

UNCLASSIFIED

Page D-10

## UNCLASSIFIED

FY 1994 R D T & E Program

Exhibit R-1

## Summary

	Thousands of Dollars		
	FY 1992	FY 1993	FY 1994
Summary Recap of Research Categories			
Management and Support	12,836	12,333	12,650
Research and Development (FYDP Program 6)	12,836	12,333	12,650
Total Director of Operational Test & Evaluation	12,836	12,333	12,650
Summary Recap of Budget Activities			
Defensewide Mission Support	12,836	12,333	12,650
Total Director of Operational Test & Evaluation	12,836	12,333	12,650
Summary Recap of FYDP Programs			
Research and Development (FYDP Program 6)	12,836	12,333	12,650
Total Director of Operational Test & Evaluation	12,836	12,333	12,650

UNCLASSIFIED

Page D 11

[illegible]

1953

1899

—

;

•

11

10

—

111

UNCLASSIFIED

Defense Mapping Agency  
FY 1994 RDT & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e
			Thousands of Dollars			
108	0305139B	DMA Mapping, Charting, and Geodesy (MC&G)	5	226,521	53,080	66,334 U
111	0305159B	Production System Improvement Defense Reconnaissance Support Activities	5	6,248	6,127	11,320 U
123	0901600B	Contract Administration/Audit	5			1,357 U
Intelligence and Communications				232,769	59,207	79,011
Total Defense Mapping Agency				232,769	59,207	79,011

UNCLASSIFIED



Strategic Defense Initiative Orgzn  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

[illegible]

UNCLASSIFIED

## UNCLASSIFIED

Office of Secretary/Defense  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994	U S C
							Thousands of Dollars
1	06011010	In-House Laboratory Independent Research	1			3,368	U
4	06011020	Defense Research Sciences	1			2,021	U
5	06011030	University Research Initiatives	1	219,591	317,144	242,611	U
6	06011090	US-JAPAN Management Training	1	9,597	9,377		U
7	06011100	Focused Research Initiatives	1			29,472	U
9	06022220	Counterterror Technical Support	1	6,512	9,368	6,169	U
10	06022270	Medical Free Electron Laser	1	23,000	18,755	19,248	U
11	06022280	Historically Black Colleges and Universities (HBCU) Science and Engineer	1	15,000	14,066		U
19	06027560	DoD Software Technology Initiative	1			43,304	U
20	06027870	Medical Technology	1			6,737	U
22	06027900	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		15,249	24,703	U
Technology Base				273,700	383,959	377,633	
28	06022270	Not Used	2				U
29	06030020	Medical Advanced Technology	2			4,701	U
35	06032250	Joint DoD-DoE Munitions Technology Development	2	17,422	17,795	16,446	U
40	06037040	Special Technical Support	2	9,677	8,743	8,841	U
41	06037050	Manufacturing Technology	2			147,733	U
42	06037160	Strategic Environmental Research Program	2	77,612	169,940	97,958	U
43	06037180	Medical Research	2	10,000			U

UNCLASSIFIED

Page D-15

UNCLASSIFIED

Office of Secretary/Defense  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Element Number	Item	Act	FY 1992	Thousands of Dollars		U
					FY 1993	FY 1994 c	
44	0603719D	Focus Hope	2	20,000			U
45	0603720D	Environmental Special Project	2	19,315			U
46	0603721D	DoD Environmental Studies Development	2	5,000			U
47	0603736D	Computer Aided Logistics Support	2	15,116	15,206	10,424	U
48	0603737D	Balanced Technology Initiative	2	122,110	141,721		U
49	0603738D	Cooperative DoD/VA Medical Research	2	19,501	28,561		U
53	0603755D	High performance Computing Modernization Program	2			122,819	U
54	0603756D	Consolidated DoD Software Initiative	2	25,894	31,940	9,151	U
56	0603832D	Joint Wargaming Simulation Management Office	2		57,122	67,152	U
57	0604704D	Rocket Motor Demilitarization Program	2	26,377	15,847	12,267	U
		Advanced Technology Development		368,024	486,875	497,492	
68	0603741D	Air Defense Initiative	3	199,458	162,197		U
		Strategic Programs		199,458	162,197		
76	0603228D	Physical Security Equipment	4	56,473	25,233	20,676	U
77	0603709D	Joint Robotics Program	4	20,106	18,399	22,125	U
78	0603710D	Classified Program - C3I	4	10,115	44,185	9,912	U
79	0603714D	Advanced Sensor Applications Program	4	42,333	43,471	25,920	U
80	0603715D	AIM-9 Consolidated Program	4	37,659	14,281	9,593	U
81	0603724D	Biological Defense - Advanced Development	4			26,355	U

UNCLASSIFIED

Page D-16

## UNCLASSIFIED

Office of Secretary/Defense  
FY 1994 R D T & E Program

Exhibit R 1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Element No	Item	Act	Thousands of Dollars		
				FY 1992	FY 1993	FY 1994 c
83	0604705D	Mobile Offshore Base Analysis	4	2,850	6,563	0
84	0604771D	Joint Tactical Information Distribution System (JTIDS)	4	106,180	69,716	67,053 0
89	0305141D	Joint Remotely Piloted Vehicles Program	4	99,728	131,046	180,112 0
90	0305815D	General Support for SO/LIC	4	1,897		0
Tactical Programs						
104	0304311D	Selected Activities	5	377,341	352,894	361,746
115	0305190D	C3I Intelligence Programs	5	8,001	12,084	6,754 0
119	0305889D	Intelligence Support to OSD Counternarcotics	5	17,727		0
Intelligence and Communications						
128	0603705D	Manufacturing Technology	6	25,728	26,150	6,754
129	0603708D	Integrated Diagnostics	6	6,861	10,624	10,441 0
130	0603790D	NATO Research and Development	6	10,881	60,160	57,631 0
131	0603832D	Joint Wargaming Simulation Management Office	6	18,831		0
132	0605104D	Technical Studies, Support and Analysis	6	38,509	40,709	37,444 0
134	0605116D	General Support to C3I	6	14,457		0
135	0605117D	Foreign Material Acquisition and Exploitation	6	9,800	9,408	336,176 0
137	0605136D	FCIMS Programs	6	26,700		0
138	0605137D	Manufacturing Engineering Education	6	22,110		0
139	0605502D	Small Business Innovative Research	6	14,316		0

UNCLASSIFIED

## UNCLASSIFIED

Office of Secretary/Defense  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No Number	Item	Act ---	FY 1992 -----	FY 1993 -----	FY 1994 c -----	Thousands of Dollars -----	U
142 06058720	Productivity Investments	6	585				U
146 09016000	Contract Administration/Audit	6				18,623	U
	Defensewide Mission Support		179,744	111,101	460,317		
Total	Office of Secretary/Defense		1,423,995	1,523,176	1,703,942		

UNCLASSIFIED

Page D-18

## UNCLASSIFIED

Defense Advanced Research Projects Agency  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Number	Item	Act	Thousands of Dollars		
				FY 1992	FY 1993	FY 1994 e
2	0601101E	Defense Research Sciences	1	115,790	109,629	79,657 U
12	0602301E	Computing Systems and Communications Technology	1	288,292	349,463	368,589 U
13	0602702E	Tactical Technology	1	128,052	98,019	143,891 U
14	0602707E	Particle Beam Technology	1	2,495		U
15	0602708E	Integrated Command and Control Technology	1	109,008	152,180	57,214 U
16	0602712E	Materials and Electronics Technology	1	198,409	255,112	198,502 U
17	0602714E	Treaty Verification	1	19,466		U
23	0602790E	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		16,182	U
		Technology Base		861,512	980,585	847,853
36	0603226E	Experimental Evaluation of Major Innovative Technologies	2	249,495	286,568	512,198 U
37	0603227E	Relocatable Target Detection Technology Program	2	28,240		U
38	0603569E	Advanced Submarine Technology	2	71,458	52,049	32,556 U
39	0603570E	Dual-Use Partnerships	2	60,000	561,633	324,000 U
50	0603739E	Manufacturing Technology	2	206,061	219,330	299,597 U
51	0603744E	Advanced Simulation	2		28,522	9,207 U
52	0603745E	Semiconductor Manufacturing Technology	2		94,845	100,000 U
55	0603756E	Consolidated DoD Software Initiative	2	52,317		U
		Advanced Technology Development		667,571	1,242,947	1,277,558
133	0605114E	BLACK LIGHT	6	4,000	4,770	4,875 U

UNCLASSIFIED

## UNCLASSIFIED

Defense Advanced Research Projects Agency  
FY 1994 R D T & E Program

Exhibit R-1

## Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994	Thousands of Dollars
140	0605507f Small Business Innovative Research	6	12,115			U
143	0605898f Management Headquarters (Research and Development	6	19,644	22,150	24,005	U
144	0305889f Intelligence Support to OSO Counternarcotics	6	32,450			U
147	0901600L Contract Administration/Audit	6			27,873	U
	Defensewide Mission Support		68,209	26,920	56,753	
Total	Defense Advanced Research Projects Agency		1,597,292	2,250,452	2,182,164	

UNCLASSIFIED

Page D-20

UNCLASSIFIED

National Security Agency  
FY 1994 R D I & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994	Thousands of Dollars
96	0301011G Cryptologic Activities	5				U
101	0303132G Global Grid Communications	5				U
102	0303140G Information Systems Security Program	5				U
103	0303401G Communications Security (COMSEC)	5				U
112	0305159G Defense Reconnaissance Support Activities	5				U
114	0305167G Computer Security	5				U
118	0305885G Tactical Cryptologic Activities	5				U
120	0305889G Intelligence Support to OSD Counterintelligence	5				U
124	0901600G Contract Administration/Audit	5			23,451	U
Intelligence and Communications						
Total National Security Agency						

UNCLASSIFIED



## UNCLASSIFIED

Defense Nuclear Agency  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Line Element No	Program Element No	Item	Act	Thousands of Dollars				S e
				FY 1992	FY 1993	FY 1994 c		
8	0602109H	Superconductive Magnetic Energy Storage	1	40,000	20,000			U
18	0602715H	Defense Nuclear Agency	1	357,646	384,722			288,388 U
24	0602790H	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		4,868			3,851 U
26	0901600H	Contract Administration/Audit	1					6,834 U
Technology Base								
66	0603711H	Verification Technology Demonstration	3	74,979	56,841			46,350 U
Strategic Programs								
				74,979	56,841			46,350
Total Defense Nuclear Agency				472,625	466,431			345,423

UNCLASSIFIED

UNCLASSIFIED

Defense Support Project Office  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 e c
			Thousands of Dollars			
109	0305154I	Airborne Reconnaissance Support Program	5	122,755	194,135	356,303 U
110	0305157I	Land Remote Sensing Satellite System	5		5,750	34,506 U
113	0305159I	Defense Reconnaissance Support Activities	5	83,539	54,426	81,872 U
125	0901600I	Contract Administration/Audit	5			4,825 U
Intelligence and Communications				206,294	254,311	477,506
Total Defense Support Project Office				206,294	254,311	477,506

UNCLASSIFIED

## UNCLASSIFIED

Joint Chiefs of Staff  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defense

Line Element No	Program Name	Art	FY 1992	FY 1993	FY 1994
67	0603734J Island Sun Support	3	58,776	20,550	15,822 U
72	0303154J WMLCS AWP Modernization	3		3,900	7,000 U
74	0903600J Contract Administration Audit	3			436 U
85	0203154J CINC C2 Initiatives	3	58,776	24,450	23,258
	Contract Program 5			3,786	1,193
Total	Joint Chiefs of Staff		58,776	26,236	24,451

UNCLASSIFIED

Page D-24

## UNCLASSIFIED

Defense Information Systems Agency  
FY 1994 R D T & E Program

Exhibit R 1

## Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994	Thousands of Dollars
25	0305108K Command and Control Research	1			1,847	0
	Technology Base				1,847	
58	0305108K Command and Control Research	2	1,956	1,740		0
	Advanced Technology Development		1,956	1,740		
69	0302016K National Military Command System-Wide Support	3	10,448	8,756	3,500	0
70	0302019K WWMCCS Systems Engineer	3	11,799	8,765	9,253	0
71	0303131K Minimum Essential Emergency Communications Network (MEECN)	3	3,659	3,195	3,285	0
73	0303154K WWMCCS ADP Modernization	3	39,881	23,209		0
	Strategic Programs		65,776	43,925	16,038	
86	0201135K CINC C2 Initiatives	4	1,803			0
87	0208045K C3 Interoperability (Joint Tactical C3 Agency)	4	48,099	24,173	28,088	0
88	0203298K Management Headquarters (Joint Tactical C3 Agency)	4	6,893			0
92	0901600K Contract Administration/Audit	4			1,283	0
	Tactical Programs		56,795	24,173	29,371	
99	0303126K Long-Haul Communications (DCS)	5	14,931	12,817	20,720	0
100	0303127K Support of the National Communications System	5	3,454	3,159	3,839	0
116	0305830K Center for Information Management	5		3,284		0
	Intelligence and Communications		18,385	19,256	24,559	
Total	Defense Information Systems Agency		142,912	90,094	71,815	

UNCLASSIFIED

UNCLASSIFIED

Defense Intelligence Agency  
FY 1994 RFP RFP Program

Exhibit A-1

## Appropriation: 0400 D Research Development Test &amp; Eval Defense

Program Line Element No	Item	Act	FY 1994	FY 1995	Thousands of Dollars
97 03013010	General Defense Intelligence Program	5			0
98 03013010	Missile Intelligence Agency	4			0
105 03050980	Defense Support Activity - IPSG	5			0
117 03050940	Intelligence Planning & Review Activities	5			0
121 03058890	Intelligence Support to OSD Counterintelligence	4			0
122 03058980	Management Headquarters (Auxiliary Forces)	5			0
126 03060000	Contract Administration/Audit	5			200 0
	Intelligence and Communications				0
Total	Defense Intelligence Agency				0

UNCLASSIFIED

Page D-26

## UNCLASSIFIED

Central Imagery Office  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars	
106	0305106LC Consolidated Imagery Activities	5					U
107	0305107LC Tactical Imagery Activities	5					U
	Intelligence and Communications						U
Total	Central Imagery Office						U

UNCLASSIFIED

UNCLASSIFIED

Defense Logistics Agency  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line No	Program Element Number	Item	Act	FY 1992	FY 1993	FY 1994 c	Thousands of Dollars e
136	0605120S	Technical Information Service	6	7,653	5,657		U
141	0605798S	Defense Support Activities	6	14,200	12,955	12,561	U
145	0708011S	Industrial Preparedness	6	16,900			U
148	0901600S	Contract Administration/Audit	6			235	U
Defensewide Mission Support							
				38,753	18,612	12,796	
Total Defense Logistics Agency				38,753	18,612	12,796	

UNCLASSIFIED

UNCLASSIFIED

Uniformed Services University (USUHS)  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Program Line Element No	Item	Act	FY 1992	FY 1993	FY 1994 C	Thousands of Dollars
3	0601101W In-House Laboratory Independent Research	1	3,193	4,123		U
	Technology Base		3,193	4,123		
Total	Uniformed Services University (USUHS)		3,193	4,123		

UNCLASSIFIED



## UNCLASSIFIED

Special Operations Command  
FY 1994 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Program Line Element No	Item	Act	Thousands of Dollars			S e c
			FY 1992	FY 1993	FY 1994	
27	11602798B Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	1		1,749		2,281 U
	Technology Base			1,749		2,281
59	11604018B Special Operations Technology Development	2	3,385	3,730		17,794 U
60	11604028B Special Operations Advanced Technology Development	2	16,314	12,909		9,655 U
61	11604078B SOF Medical Technology Development	2		541		1,310 U
	Advanced Technology Development		19,699	17,180		28,759
91	09016008B Contract Administration/Audit	4				4,656 U
93	11604048B Special Operations Tactical Systems Development	4	208,009	118,621		221,305 U
94	11604058B Special Operations Intelligence Systems Development	4	10,057	27,254		6,686 U
95	11604088B SOF Operational Enhancements	4	55,990	69,754		72,167 U
	Tactical Programs		274,056	215,629		304,814
127	11604098B Other Force Programs	5	6,080	1,170		U
	Intelligence and Communications		6,080	1,170		
	Total Special Operations Command		299,835	235,728		335,854

UNCLASSIFIED

Page D-30